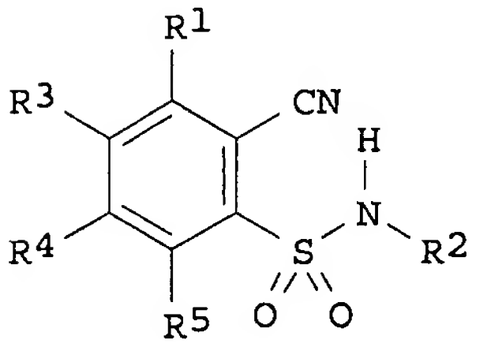
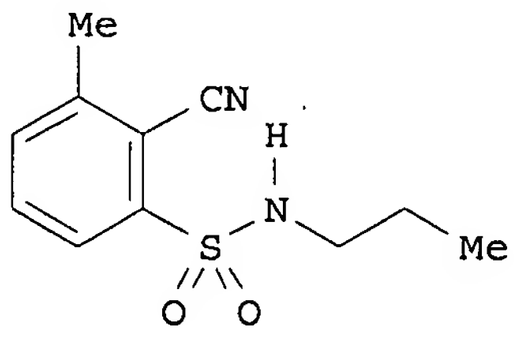
L21 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:346977 CAPLUS
DN 142:392186
TI 2-Cyanobenzenesulfonamides for combating animal pests and their preparation
IN Von Deyn, Wolfgang; Baumann, Ernst; Hofmann, Michael; Kordes, Markus; Puhl, Michael; Schmidt, Thomas; Tedeschi, Livio; Rack, Michael; Bucci, Toni; Culbertson, Deborah L.; Cotter, Henry Van Tuyl; Oloumi-Sadeghi, Hassan
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 67 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2005035486 | A1 | 20050421 | WO 2004-EP11004 | 20041001 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| | RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU 2004279549 | A1 | 20050421 | AU 2004-279549 | 20041001 |
| | CA 2539563 | A1 | 20050421 | CA 2004-2539563 | 20041001 |
| | EP 1670752 | A1 | 20060621 | EP 2004-765761 | 20041001 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR | | | | |
| | CN 1863767 | A | 20061115 | CN 2004-80028841 | 20041001 |
| | BR 2004014897 | A | 20061212 | BR 2004-14897 | 20041001 |
| | JP 2007507459 | T | 20070329 | JP 2006-530074 | 20041001 |
| | MX 2006PA03145 | A | 20060614 | MX 2006-PA3145 | 20060320 |
| | US 2007071782 | A1 | 20070329 | US 2006-574153 | 20060329 <-- |
| | IN 2006CN01103 | A | 20070817 | IN 2006-CN1103 | 20060331 |
| PRAI | US 2003-507507P | P | 20031002 | | |
| | WO 2004-EP11004 | W | 20041001 | | |

OS CASREACT 142:392186; MARPAT 142:392186
GI




I




II

AB The invention relates to 2-cyanobenzenesulfonamide compds. of formula I and/or to their agriculturally useful salts. In compds. I, R1 is C1-4 alkyl, C1-4 haloalkyl, C1-4 alkoxy, or C1-4 haloalkoxy; R2 is H, (un)substituted C1-6 alkyl, (un)substituted C2-6 alkenyl, (un)substituted C2-6 alkynyl, (un)substituted C3-8 cycloalkyl, or (un)substituted C1-4 alkoxy; R3, R4, and R5 are independently selected from H, halo, cyano,

nitro, C1-6 alkyl, C3-8 cycloalkyl, C1-4 alkoxy, etc.; and includes agriculturally useful salts. The invention also relates to the preparation of I, agricultural compns. containing at least one compound of formula I and/or at least one agriculturally useful salt of I, and at least one inert liquid and/or solid agronomically acceptable carrier, and, if desired, at least one surfactant. Diazotization of 2-amino-6-methylbenzonitrile followed by sulfonylation and amidation with propylamine gave cyanobenzenesulfonamide II. Prepared similarly, the N-Et analog of II (I; R1 = Me; R2 = Et; R3 = R4 = R5 = H), at 300 ppm, resulted in over 75% mortality of 2-spotted spider mites (Tetranychus urticae) and over 85% mortality of 3 tested aphid species.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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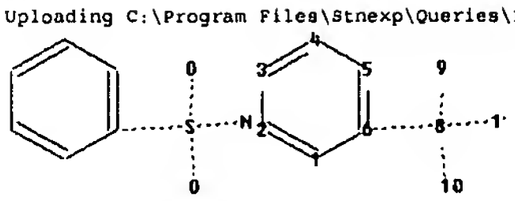

chain nodes :
8 9 10 11
ring nodes :
1 2 3 4 5 6
chain bonds :
6-8 8-9 8-10 8-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
6-8 8-9 8-10 8-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:CLASS 10:CLASS
11:CLASS

L3 STRUCTURE UPLOADED

=>
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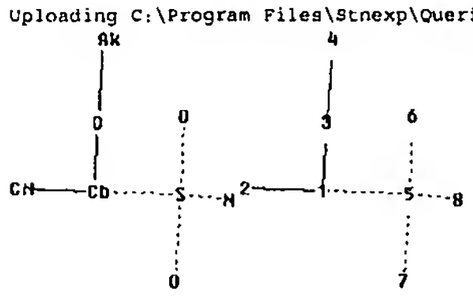


chain nodes :
1 2 3 4 5 6 7 8
chain bonds :
1-2 1-3 1-5 3-4 5-6 5-7 5-8
exact/norm bonds :



1-5 3-4 5-6 5-7 5-8
exact bonds :
1-2 1-3

Match level :
1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
Generic attributes :
1:
Saturation : Unsaturated
Number of Carbon Atoms : less than 7
Type of Ring System : Monocyclic

L16 STRUCTURE UPLOADED

=> d his

(FILE 'HOME' ENTERED AT 12:50:41 ON 28 JAN 2008)

FILE 'REGISTRY' ENTERED AT 12:50:51 ON 28 JAN 2008
L1 SCREEN 1838
L2 SCREEN 1839
L3 STRUCTURE UPLOADED
L4 50 S (L3 AND L1) SAM
L5 50 S L3 AND L1 NOT L2 SAM
L6 55096 S L3 AND L1 NOT L2 SSS FULL

FILE 'CAPLUS' ENTERED AT 12:53:02 ON 28 JAN 2008
L7 57752 S L6

FILE 'STNGUIDE' ENTERED AT 12:53:31 ON 28 JAN 2008

FILE 'REGISTRY' ENTERED AT 12:54:24 ON 28 JAN 2008
L8 STRUCTURE UPLOADED
L9 26 S L8 SAM SUB=L6
L10 611 S L8 SSS FULL SUB=L6

FILE 'CAPLUS' ENTERED AT 12:54:55 ON 28 JAN 2008
L11 280 S L10

FILE 'STNGUIDE' ENTERED AT 12:55:16 ON 28 JAN 2008

FILE 'REGISTRY' ENTERED AT 12:55:56 ON 28 JAN 2008
L12 STRUCTURE UPLOADED
L13 15 S L12 SAM SUB=L10
L14 361 S L12 SSS FULL SUB=L10

FILE 'CAPLUS' ENTERED AT 12:56:19 ON 28 JAN 2008
L15 49 S L14

FILE 'STNGUIDE' ENTERED AT 12:56:31 ON 28 JAN 2008

FILE 'CAPLUS' ENTERED AT 12:57:11 ON 28 JAN 2008

FILE 'STNGUIDE' ENTERED AT 12:57:24 ON 28 JAN 2008



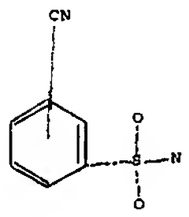
FILE 'REGISTRY' ENTERED AT 12:58:14 ON 28 JAN 2008
SAV TEM L6 BRD574153/A

FILE 'REGISTRY' ENTERED AT 13:03:32 ON 28 JAN 2008
L16 STRUCTURE UPLOADED
L17 9 S L16 SAM SUB=L6
L18 129 S L16 SSS FULL SUB=L6

FILE 'CAPLUS' ENTERED AT 13:03:58 ON 28 JAN 2008
L19 16 S L18
L20 1 S US200!-574153/APPS
L21 1 S L19 AND L20
L22 15 S L19 NOT L20

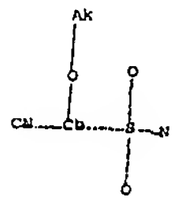
FILE 'REGISTRY' ENTERED AT 13:04:23 ON 28 JAN 2008

=> d l8
L8 HAS NO ANSWERS
L8 STR



Structure attributes must be viewed using STN Express query preparation.

=> d l16
L16 HAS NO ANSWERS
L16 STR



Structure attributes must be viewed using STN Express query preparation.

=> d l22 tot bib abs hitstr

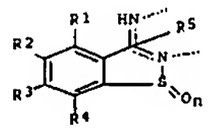


L22 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:1145210 CAPLUS Full-text
DN 147:421320
TI 3-Amino-1,2-benzisothiazole compounds for controlling invertebrate pests
IN Pohlman, Matthias; Von Deyn, Wolfgang; Kaiser, Florian; Baumann, Ernst; Rack, Michael; Anspaugh, Douglas D.; Culbertson, Deborah L.; Van Tuyl Cotter, Henry
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 68pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI WO 2007113119 | A1 | 20071011 | WO 2007-EP52738 | 20070322 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRAI US 2006-787809P P 20060331
OS MARPAT 147:421320
GI

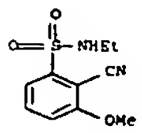


I

AB The present invention relates to pesticidal 3-amino-1,2-benzisothiazole compds. of formula (I), wherein R1 = (un)substituted (halo)alkyl, alkenyl, alkoxy, cycloalkyl, etc.; R2-R4 = independently H, halo, CN, azido, NO2, (halo)alkyl, cycloalkyl, etc.; R5 = H, OH, (un)substituted alkyl, etc.; and n = 0, 1 or 2, or to enantiomers, diastereomers and salts thereof, with the proviso that when n = 0, R5 is not H. The invention also relates compns. comprising such compds., application methods, and use of I derivs., their salts, or compns. comprising them for combating animal pests, including insects, arachnids or nematodes. Thus, cotton plants at the cotyledon stage were infested with cotton aphid (Aphis gossypii, mixed life stages) prior to treatment with formulated solns. of I derivs., and aphid mortality was determined after 5 days. In this test 40 of the I derivs. at 300 ppm provided ≥86% mortality of cotton aphid in comparison with untreated controls.

IT [illegible]

RL: RCT (Reactant); RACT (Reactant or reagent)
(in preparation of aminobenzisothiazole pesticide)
RN 850154-43-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-3-methoxy- (CA INDEX NAME)




RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

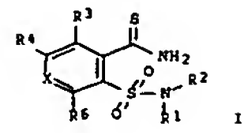
L22 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:934877 CAPLUS Full-text
DN 147:277460
TI Preparation of aminothiocarbonyl-substituted benzenesulfonamides and pyridinesulfonamides as pesticides for the protection of plants against animal pests and insects and particularly against aphids and thrips
IN Kaiser, Florian; Von Deyn, Wolfgang; Pohlman, Matthias; Anspaugh, Douglas D.; Culbertson, Deborah L.; Cotter, Henry Van Tuyl
PA Basf Aktiengesellschaft, Germany
SO PCT Int. Appl., 259pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI WO 2007093530 | A1 | 20070823 | WO 2007-EP51145 | 20070207 |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

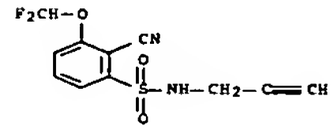
PRAI US 2006-774134P P 20060216
OS MARPAT 147:277460
GI





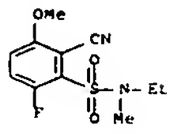

I

AB The present invention relates to (thiocarbonyl)substituted aryl sulfonamides I, wherein X is N, NO, CR5; R1 and R2 are independently H, acyl, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl; R3 is H, nitro, CN, N3, NH2, halogen, sulfonyl-amino, sulfenyl-amino, sulfinyl-amino, acyl, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy,alkylthio, alkylamino, alkyl-sulfinyl, alkyl-sulfenyl, alkyl-sulfonyl; R4-R6 are independently H, halogen, CN, N3, NO2, alkyl, cycloalkyl, halo-alkyl, alkoxy, alkylthio, alkyl-sulfinyl, alkyl-sulfonyl, halo-alkoxy, halo-alkylthio, alkenyl, alkynyl, alkoxycarbonyl, amino, alkylamino, amino-carbonyl, alkylaminocarbonyl, sulfonyl, sulfonyl-amino, sulfenyl-amino, and acyl, which were prepared and tested as pesticides against animal pests for use in crop protection. Thus, I (R1 = Me, R2 = i-Pr, R3 = OMe, R4 = R6 = H) was prepared from 3,5-dichloro-4-pyridinecarboxaldehyde by sequential nucleophilic substitution reactions with propane-1-thiol and with sodium methoxide, conversion of the thioether to a sulfonyl chloride with chlorine in chlorobenzene, reaction of the sulfonyl chloride with N-methylisopropylamine to form a sulfonamide, and reaction of the nitrile with hydrogen sulfide. The title compds were used for combating animal pests from the orders Homoptera or Thysanoptera and were applied in an amount of 100 mg to 10 Kg per 100 Kg of seeds.
IT [illegible]
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of aminothiocarbonyl-substituted benzenesulfonamides and pyridinesulfonamides as pesticides for the protection of plants against animal pests and insects and particularly against aphids and thrips)
RN 850154-82-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-2-propyn-1-yl- (CA INDEX NAME)




RN 889097-44-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-6-fluoro-3-methoxy-N-methyl- (CA INDEX NAME)





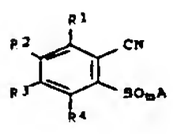

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:585360 CAPLUS Full text
DN 147:3671
TI Preparation of cyanobenzene derivatives as insecticides
IN Ponlman, Matthias; Von Deyn, Wolfgang; Schmidt, Thomas; Kaiser, Florian; Anspaugh, Douglas D.; Culbertson, Deborah L.; Van Tuyl Cotter, Henry
PA Basf Aktiengesellschaft, Germany
SO PCT Int. Appl., 112pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI WO 2007060220 | A2 | 20070531 | WO 2006-EP68880 | 20061124 |
| WO 2007060220 | A3 | 20070802 | | |

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2005-739642P P 20051125
OS MARPAT 147:3671
GI




I

AB The cyanobenzene derivs. I [m = 0, 1 or 2; A = N:CR5R6, N:SR7R8, NR10C(:X)R9 or ethylenically unsatd. or aromatic N-bound 5-, 6- or 7-membered heterocyclyl; X = O, S or NR11; R1 = H, nitro, cyano,azido, amino, halo, (cyclo)alkyl, alkoxy, etc.; R2-4 = H, halo, cyano, azido, nitro, (cyclo)alkyl, haloalkyl, alkoxy, alkylthio, etc.; R5, R6 = H, OH, NH2, alkoxyaryl, heteroaryl, etc.; R7, R8, R9 = (un)substituted aryl, heteroaryl, etc.; R10 = H, (un)substituted (cyclo)alkyl, alkenyl, alkynyl, alkoxy, etc.; R11 = alkyl or alkoxy, etc.] and I salts are prepared as insecticides, especially active against aphids.
IT [illegible]
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as insecticide)
RN 937721-89-6 CAPLUS
CN Acetamide, N-[(2-cyano-3-methoxyphenyl)sulfonyl]-N-methoxy- (CA INDEX NAME)

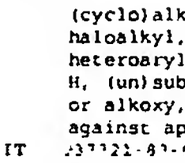




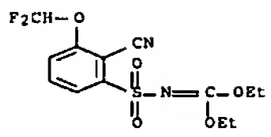

RN 937722-01-5 CAPLUS
CN Acetamide, N-[[2-cyano-3-(difluoromethoxy)phenyl]sulfonyl]-N-ethyl- (CA INDEX NAME)



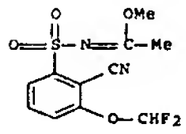

RN 937722-02-6 CAPLUS
CN Acetamide, N-[(2-cyano-6-fluoro-3-methoxyphenyl)sulfonyl]-N-ethyl- (CA INDEX NAME)




RN 937722-19-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(diethoxymethylene)-3-(difluoromethoxy)- (CA INDEX NAME)



RN 937722-22-0 CAPLUS
CN Ethanimidic acid, N-[[2-cyano-3-(difluoromethoxy)phenyl]sulfonyl]-, methyl ester (CA INDEX NAME)



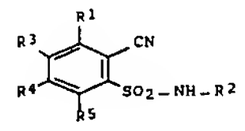
L22 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:1007694 CAPLUS Full-text
DN 145:350188
TI Preparation of cyanobenzenesulfonamide derivatives as seed-treatment insecticides
IN Von Deyn, Wolfgang; Kaiser, Florian; Pohlman, Matthias; Bastiaans, Henricus Maria Martinus; Baumann, Ernst; Rack, Michael; Anspaugh, Douglas D.; Van Tuyl Cotter, Henry; Culbertson, Deborah L.; Hofmann, Michael; Hicks, Carol
PA Basf Aktiengesellschaft, Germany
SO PCT Int. Appl., 65pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2006100288 | A2 | 20060928 | WO 2006-EP60988 | 20060323 |
| | WO 2006100288 | A3 | 20070125 | | |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | |
| | RW: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |



| | | | | | |
|---|---|---|---|---|---|
| | AU 2006226300 | A1 | 20060928 | AU 2006-226300 | 20060323 |
| | CA 2601072 | A1 | 20060928 | CA 2006-2601072 | 20060323 |
| | EP 1863350 | A2 | 20071212 | EP 2006-725266 | 20060323 |
| | R: | AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU | | | |
| | IN 2007KN02967 | A | 20070914 | IN 2007-KN2967 | 20070813 |
| | KR 2007118133 | A | 20071213 | KR 2007-724311 | 20071023 |
| PRAI | US 2005-664771P | P | 20050324 | | |
| | WO 2006-EP60988 | W | 20060323 | | |

OS MARPAT 145:350188
GI



AB The cyanobenzenesulfonamide derivs. I [R1 = (halo)alkyl or (halo)alkoxy; R2 = H, (un)substitutec alkyl, alkenyl, alkynyl, cycloalkyl, etc.; R3-5 = H, halo, CN, NO2 (halo)alkyl, alkoxy, etc.] or its enantiomers are prepared as seed-treatment insecticides.
IT 850154-03-9P 850154-43-7P 850154-45-9P
850154-46-0P 850154-47-1P 850154-48-2P
850154-49-3P 850154-52-8P 850154-53-9P
850154-54-0P 850154-61-9P 850154-62-0P
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850154-68-6P 850154-69-7P 850154-70-0P
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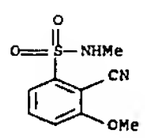
910459-82-4P 910459-83-5P 910459-84-6P



RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as seed-treatment insecticide)
RN 850154-03-9 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-N-methyl- (CA INDEX NAME)



RN 850154-43-7 CAPLUS
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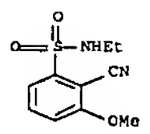

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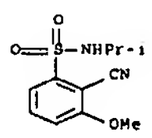
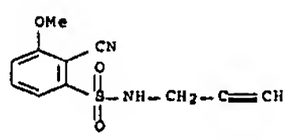
CN Benzenesulfonamide, 2-cyano-3-methoxy-N-(1-methylethyl)- (CA INDEX NAME)

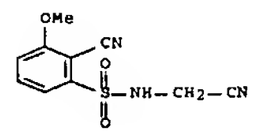


RN 850154-46-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-N-2-propynyl- (9CI) (CA INDEX NAME)

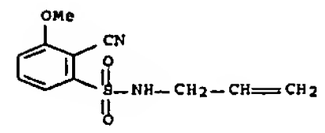




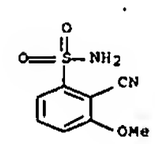
RN 850154-47-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(cyanomethyl)-3-methoxy- (CA INDEX NAME)



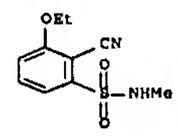
RN 850154-48-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-N-2-propenyl- (9CI) (CA INDEX NAME)



RN 850154-49-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy- (CA INDEX NAME)

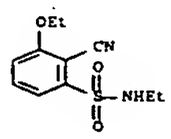


RN 850154-52-8 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-methyl- (CA INDEX NAME)

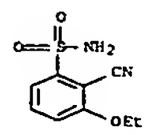


RN 850154-53-9 CAPLUS

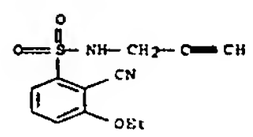
CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-ethyl- (CA INDEX NAME)



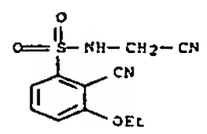
RN 850154-54-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-ethoxy- (CA INDEX NAME)



RN 850154-61-9 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-2-propynyl- (9CI) (CA INDEX NAME)

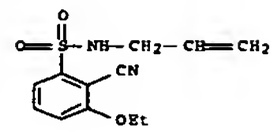


RN 850154-62-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(cyanomethyl)-3-ethoxy- (CA INDEX NAME)

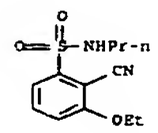


RN 850154-63-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-2-propenyl- (9CI) (CA INDEX NAME)

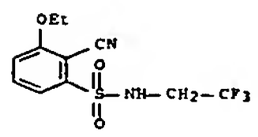




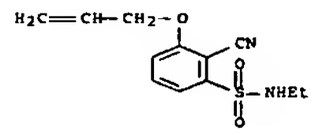
RN 850154-64-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-propyl- (CA INDEX NAME)



RN 850154-67-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-ethoxy-N-(2,2,2-trifluoroethyl)- (CA INDEX NAME)

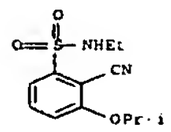


RN 850154-69-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-3-(2-propenyloxy)- (9CI) (CA INDEX NAME)

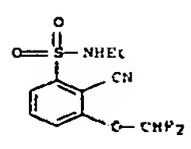


RN 850154-69-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-3-(1-methylethoxy)- (CA INDEX NAME)

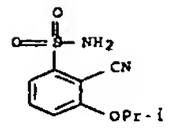




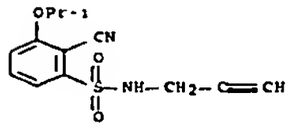
RN 850154-70-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-ethyl- (CA INDEX NAME)



RN 850154-71-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(1-methylethoxy)- (CA INDEX NAME)

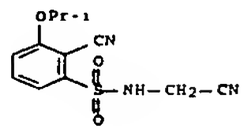


RN 850154-72-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(1-methylethoxy)-N-2-propynyl- (9CI) (CA INDEX NAME)

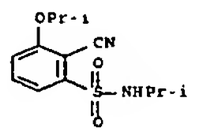


RN 850154-73-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(cyanomethyl)-3-(1-methylethoxy)- (CA INDEX NAME)

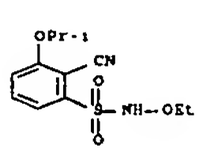




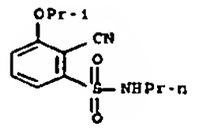
RN 850154-75-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(1-methylethoxy)-N-(1-methylethyl)- (CA INDEX NAME)



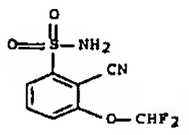
RN 850154-79-9 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethoxy-3-(1-methylethoxy)- (CA INDEX NAME)



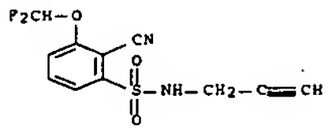
RN 850154-80-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(1-methylethoxy)-N-propyl- (CA INDEX NAME)



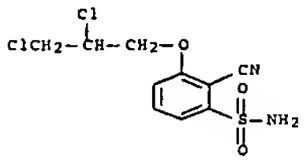
RN 850154-81-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)- (CA INDEX NAME)



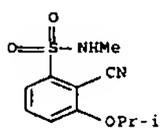
RN 850154-82-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-2-propyn-1-yl- (CA INDEX NAME)



RN 850154-83-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(2,3-dichloropropoxy)- (CA INDEX NAME)

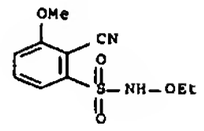


RN 850154-84-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-methyl-3-(1-methylethoxy)- (CA INDEX NAME)

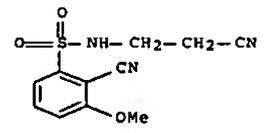


RN 850154-87-9 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethoxy-3-methoxy- (CA INDEX NAME)





RN 850154-88-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2-cyanoethyl)-3-methoxy- (CA INDEX NAME)



RN 850154-89-1 CAPLUS
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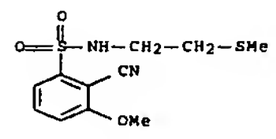

RN 850154-90-4 CAPLUS
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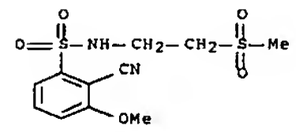
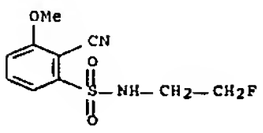


RN 850154-91-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2-fluoroethyl)-3-methoxy- (CA INDEX NAME)





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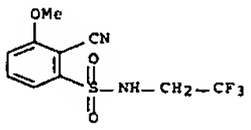

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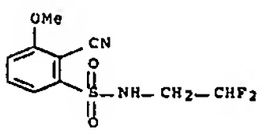

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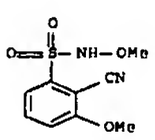
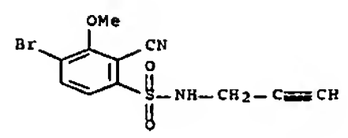
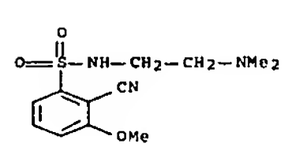


RN 850154-95-9 CAPLUS
CN Benzenesulfonamide, 4-bromo-2-cyano-3-methoxy-N-2-propynyl- (9CI) (CA INDEX NAME)

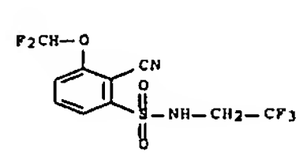




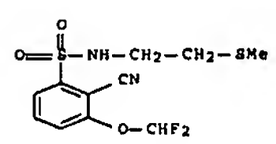
RN 850154-96-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-[2-(dimethylamino)ethyl]-3-methoxy- (CA INDEX NAME)



RN 850154-98-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-(2,2,2-trifluoroethyl)- (CA INDEX NAME)

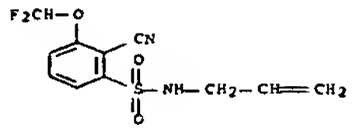


RN 850155-01-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-[2-(methylthio)ethyl]- (CA INDEX NAME)

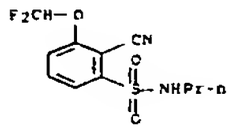


RN 850155-03-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-2-propenyl- (9CI) (CA

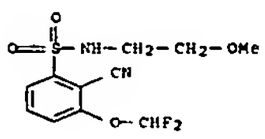
INDEX NAME)



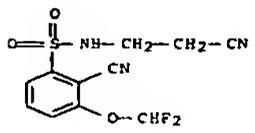
RN 850155-05-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-propyl- (CA INDEX NAME)



RN 850155-06-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-(2-methoxyethyl)- (CA INDEX NAME)



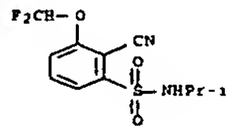
RN 850155-07-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2-cyanoethyl)-3-(difluoromethoxy)- (CA INDEX NAME)



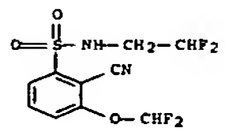
RN 850155-08-7 CAPLUS



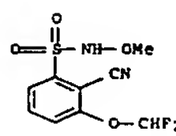
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-(1-methylethyl)- (CA INDEX NAME)



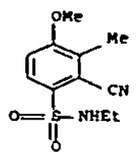
RN 850155-09-8 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2,2-difluoroethyl)-3-(difluoromethoxy)- (CA INDEX NAME)



RN 850155-10-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-methoxy- (CA INDEX NAME)

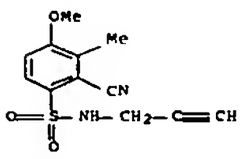


RN 850155-96-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-4-methoxy-3-methyl- (CA INDEX NAME)

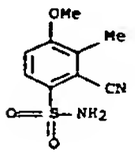




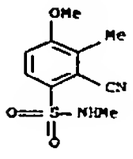
RN 850155-97-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-methoxy-3-methyl-N-2-propynyl- (9CI) (CA INDEX NAME)



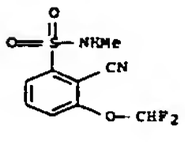
RN 850155-98-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-methoxy-3-methyl- (CA INDEX NAME)



RN 850155-99-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-methoxy-N,3-dimethyl- (CA INDEX NAME)

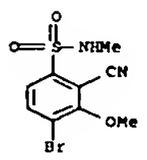


RN 910459-14-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-methyl- (CA INDEX NAME)

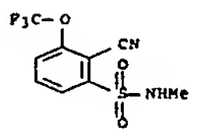




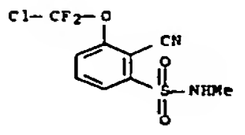
RN 910459-15-3 CAPLUS
CN Benzenesulfonamide, 4-bromo-2-cyano-3-methoxy-N-methyl- (CA INDEX NAME)



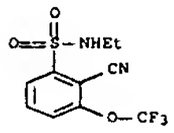
RN 910459-28-8 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-methyl-3-(trifluoromethoxy)- (CA INDEX NAME)



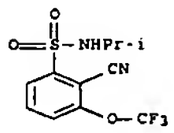
RN 910459-31-3 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-methyl- (CA INDEX NAME)



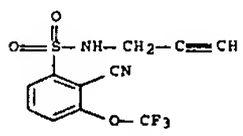
RN 910459-45-9 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-3-(trifluoromethoxy)- (CA INDEX NAME)



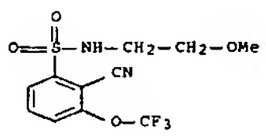
RN 910459-46-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(1-methylethyl)-3-(trifluoromethoxy)- (CA INDEX NAME)



RN 910459-47-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-2-propynyl-3-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

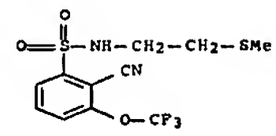


RN 910459-49-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2-methoxyethyl)-3-(trifluoromethoxy)- (CA INDEX NAME)

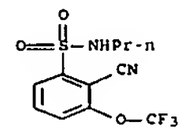


RN 910459-50-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-[2-(methylthio)ethyl]-3-(trifluoromethoxy)- (CA INDEX NAME)

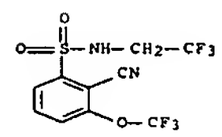




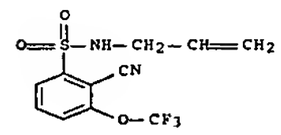
RN 910459-51-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-propyl-3-(trifluoromethoxy)- (CA INDEX NAME)



RN 910459-52-8 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2,2,2-trifluoroethyl)-3-(trifluoromethoxy)- (CA INDEX NAME)



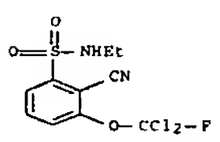
RN 910459-53-9 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-2-propenyl-3-(trifluoromethoxy)- (9CI) (CA INDEX NAME)



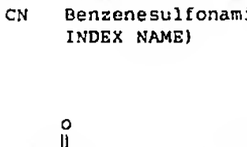
RN 910459-55-1 CAPLUS



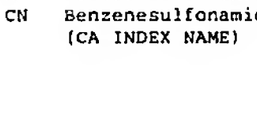
CN Benzenesulfonamide, 2-cyano-3-(dichlorofluoromethoxy)-N-ethyl- (CA INDEX NAME)



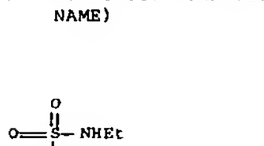
RN 910459-56-2 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-(1-methylethyl)- (CA INDEX NAME)



RN 910459-57-3 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-2-propynyl- (9CI) (CA INDEX NAME)

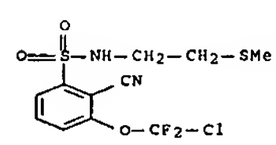


RN 910459-59-5 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-(2-methoxyethyl)- (CA INDEX NAME)

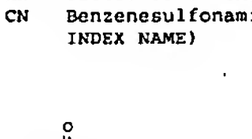




RN 910459-60-8 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-[2-(methylthio)ethyl]- (CA INDEX NAME)



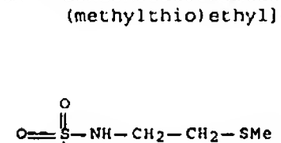
RN 910459-61-9 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-propyl- (CA INDEX NAME)



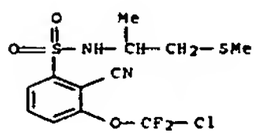
RN 910459-62-0 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-(2,2,2-trifluoroethyl)- (CA INDEX NAME)



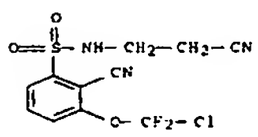
RN 910459-63-1 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-2-propenyl- (9CI) (CA INDEX NAME)



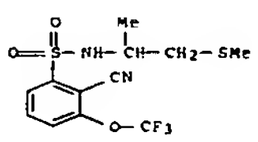
RN 910459-66-4 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-[1-methyl-2-(methylthio)ethyl]- (CA INDEX NAME)



RN 910459-67-5 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N-(2-cyanoethyl)- (CA INDEX NAME)

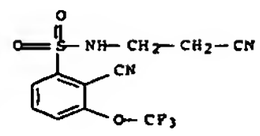


RN 910459-69-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-[1-methyl-2-(methylthio)ethyl]-3-(trifluoromethoxy)- (CA INDEX NAME)

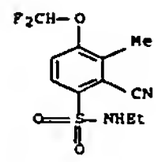


RN 910459-71-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-(2-cyanoethyl)-3-(trifluoromethoxy)- (CA INDEX NAME)

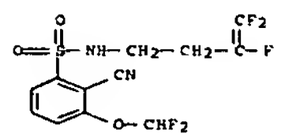




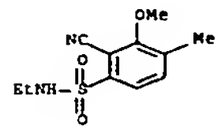
RN 910459-73-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-(difluoromethoxy)-N-ethyl-3-methyl- (CA INDEX NAME)



RN 910459-74-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N-(3,4,4-trifluoro-3-butenyl)- (9CI) (CA INDEX NAME)

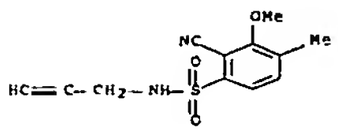


RN 910459-77-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-3-methoxy-4-methyl- (CA INDEX NAME)

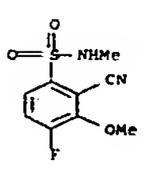


RN 910459-78-8 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-4-methyl-N-2-propynyl- (9CI) (CA INDEX NAME)

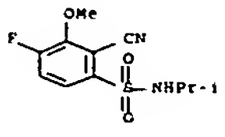




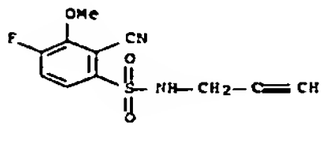
RN 910459-80-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N-methyl- (CA INDEX NAME)



RN 910459-81-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N-(1-methylethyl)- (CA INDEX NAME)



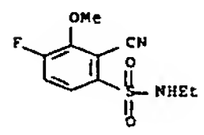
RN 910459-82-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N-2-propynyl- (9CI) (CA INDEX NAME)



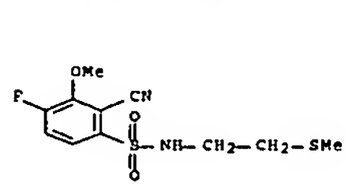
RN 910459-83-5 CAPLUS



CN Benzenesulfonamide, 2-cyano-N-ethyl-4-fluoro-3-methoxy- (CA INDEX NAME)



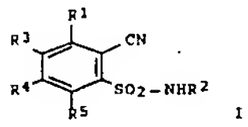
RN 910459-84-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N-[2-(methylthio)ethyl]- (CA INDEX NAME)



L22 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:1005623 CAPLUS Full-text
DN 145:329902
TI Preparation of sulfonyl insecticides for seed treatment
IN Von Deyn, Wolfgang; Kaiser, Florian; Pohlman, Matthias; Bastiaans, Henricus Maria Martinus; Baumann, Ernst; Rack, Michael; Anspaugh, Douglas D.; Cotter, Henry Van Tuyl; Culbertson, Deborah L.; Hofmann, Michael; Hicks, Carol
PA Basf Aktiengesellschaft, Germany
SO PCT Int. Appl., 44pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI WO 2006100271 | A1 | 20060928 | WO 2006-EP60961 | 20060322 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| CA 2601070 | A1 | 20060928 | CA 2006-2601070 | 20060322 |

EP 1863349 A1 20071212 EP 2006-725244 20060322
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
PRAI US 2005-664773P P 20050324
WO 2006-EP60961 W 20060322
OS MARPAT 145:329902
GI

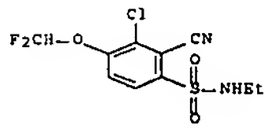


I

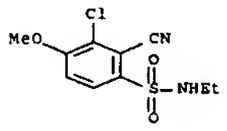
AB The sulfonyl compds. I (R1 = halo; R2 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl, etc.; R3-5 = H, halo, CN, NO2, (halo)alkyl, cycloalkyl, etc.) and their enantiomers are prepared as insecticides for seed treatment.

IT 909904-05-8P 909904-06-9P 909904-09-2P
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as insecticide for seed treatment)

RN 909904-05-8 CAPLUS
CN Benzenesulfonamide, 3-chloro-2-cyano-4-(difluoromethoxy)-N-ethyl- (CA INDEX NAME)



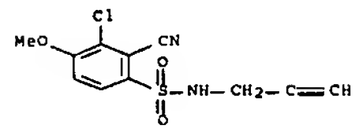
RN 909904-06-9 CAPLUS
CN Benzenesulfonamide, 3-chloro-2-cyano-N-ethyl-4-methoxy- (CA INDEX NAME)



RN 909904-09-2 CAPLUS



CN Benzenesulfonamide, 3-chloro-2-cyano-4-methoxy-N-2-propynyl- (9CI) (CA INDEX NAME)



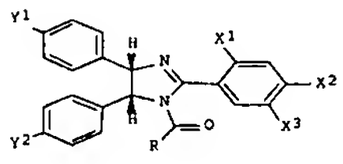
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:980053 CAPLUS Full-text
DN 145:377334
TI Preparation of cis-2,4,5-triaryl-imidazolines and their use as anticancer medicaments
IN Fotouhi, Nader; Haley, Gregory, Jay; Simonsen, Klaus. B.; Vu, Binh, Thanh; Webber, Stephen, Evan
PA F.Hoffmann-La Roche AG, Switz.
SO PCT Int. Appl., 293pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI WO 2006097261 | A1 | 20060921 | WO 2006-EP2282 | 20060313 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| AU 2006224765 | A1 | 20060921 | AU 2006-224765 | 20060313 |
| CA 2599476 | A1 | 20060921 | CA 2006-2599476 | 20060313 |
| US 2006211693 | A1 | 20060921 | US 2006-374407 | 20060313 |
| EP 1861376 | A1 | 20071205 | EP 2006-707535 | 20060313 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR | | | | |
| KR 2007107129 | A | 20071106 | KR 2007-721160 | 20070914 |
| IN 2007CN04051 | A | 20071123 | IN 2007-CN4051 | 20070917 |
| PRAI US 2005-662516P | P | 20050316 | | |
| WO 2006-EP2282 | W | 20060313 | | |

OS MARPAT 145:377334
GI



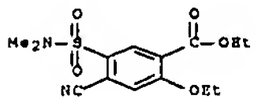


I

AB 9-2,4,5-triaryl-imidazolines I, wherein X1 is alkoxy; X2 and X3 are independently H, halogen, CN, alkyl, alkoxy, piperidinyl, substituted amine, sulfonamide, acyl, sulfoxide, oxime, alkynyl; X2 and X3 together for heterocycle; Y1 and Y2 are independently H, acetylene; R is alkoxy, piperidinyl substituted with 5-6 membered heterocycle or OH or CONH2, piperazinyl substituted by R1; R1 is H, oxo, alkyl, acyl, sulfonyl, were prepared and used as antitumor agents. These compds. are believed to inhibit MDM2-p53 interaction and as such the compds. will have anti-hyperproliferative cellular activity. Thus, 5-[(4S,5R)-4,5-bis(4- chlorophenyl)-1-[4-(2-methanesulfonylethyl)piperazine-1-carbonyl]-4,5- dihydro-1H-imidazol-2-yl]-2-chloro-4-ethoxy-N,N-dimethylbenzenesulfonamide was prepared and used for the treatment of breast, colon, lung and.prostate tumors. The ability of the compds. to inhibit in vitro the interaction between p53 and MDM2 proteins was measured. IC50s showing biol. activity that applies to compds. of the subject matter of this invention ranges from about 0.005 μM to about 1 μM. 5-[4,5-Bis(4-chlorophenyl)-1-[4- (2-hydroxyethyl)-3-oxopiperazine-1-carbonyl]-4,5-dihydro-1H-imidazol-2-yl]- 2-chloro-4-ethoxy-N,N-dimethylbenzenesulfonamide.

IT 910568-65-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of cis-2,4,5-triaryl-imidazolines and their use as anticancer medicaments)

RN 910568-65-9 CAPLUS
CN Benzoic acid, 4-cyano-5-[(dimethylamino)sulfonyl]-2-ethoxy-, ethyl ester (CA INDEX NAME)



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

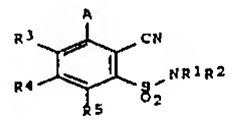
L22 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:510657 CAPLUS Full-text
DN 145:27730
TI Preparation of 2-cyano-3-(halo)alkoxybenzenesulfonamides as pesticides.
IN Von Deyn, Wolfgang; Bastiaans, Henricus Maria Martinus; Pohlman, Matthias; Rack, Michael; Baumann, Ernst; Puhl, Michael; Hofmann, Michael; Tedeschi, Livio; Kordes, Markus; Koradin, Christopher; Anspaugh, Douglas D.;



Culbertson, Deborah L.; Cotter, Henry Van Tuyl; Oloumi-Sadeghi, Hassan
PA Basf Aktiengesellschaft, Germany
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI WO 2006056433 | A2 | 20060601 | WO 2005-EP12561 | 20051124 |
| WO 2006056433 | A3 | 20060914 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| AU 2005308962 | A1 | 20060601 | AU 2005-308962 | 20051124 |
| CA 2586520 | A1 | 20060601 | CA 2005-2586520 | 20051124 |
| EP 1819668 | A2 | 20070822 | EP 2005-810670 | 20051124 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU | | | | |
| CN 101065353 | A | 20071031 | CN 2005-80040653 | 20051124 |
| IN 2007KN01847 | A | 20070810 | IN 2007-KN1847 | 20070523 |
| KR 2007086639 | A | 20070827 | KR 2007-714451 | 20070625 |
| PRAI US 2004-631204P | P | 20041126 | | |
| WO 2005-EP12561 | W | 20051124 | | |

OS MARPAT 145:27730
GI



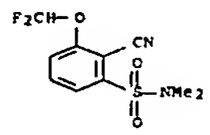
I

AB Title compds. [I; A = alkoxy, haloalkoxy, R1 = alkyl, alkenyl; R2 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy; R3-R5 = H, halo, cyano, NO2, alkyl, cycloalkyl, haloalkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkoxy, haloalkylthio, alkenyl, alkynyl, alkoxycarbonyl, amino, aminocarbonyl, etc.), were prepared Thus, 2-cyano-3-difluoromethoxyphenylsulfonyl chloride (preparation given) and dimethylamine were stirred in THF/aqueous Na2CO3 to give 79% N,N-di-Me 2-cyano-3-difluoromethoxyphenylsulfonamide. The latter and addnl. I at 300 ppm gave >85% kill of Aphis gossypii on cotton plants.

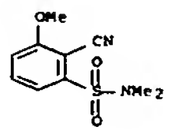
IT 889097-30-7P 889097-31-8P 889097-32-9P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of 2-cyano-3-(halo)alkoxybenzenesulfonamides as pesticides)

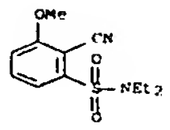
RN 889097-30-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-N,N-dimethyl- (CA INDEX NAME)



RN 889097-31-8 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-N,N-dimethyl- (CA INDEX NAME)

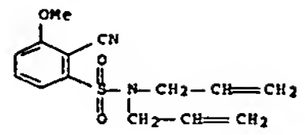


RN 889097-32-9 CAPLUS
CN Benzenesulfonamide, 2-cyano-N,N-diethyl-3-methoxy- (CA INDEX NAME)

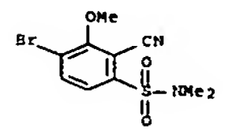


RN 889097-33-0 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-N,N-di-2-propenyl- (9CI) (CA INDEX NAME)

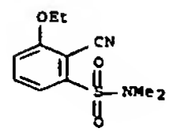




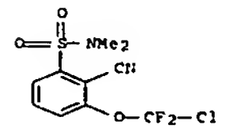
RN 889097-34-1 CAPLUS
CN Benzenesulfonamide, 4-bromo-2-cyano-3-methoxy-N,N-dimethyl- (CA INDEX NAME)



RN 889097-35-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-ethoxy-N,N-dimethyl- (CA INDEX NAME)

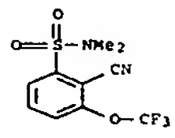


RN 889097-36-3 CAPLUS
CN Benzenesulfonamide, 3-(chlorodifluoromethoxy)-2-cyano-N,N-dimethyl- (CA INDEX NAME)

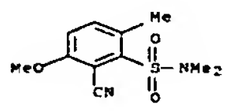


RN 889097-37-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-N,N-dimethyl-3-(trifluoromethoxy)- (CA INDEX NAME)

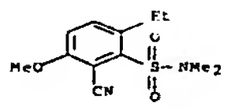




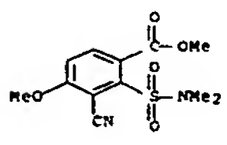
RN 889097-38-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-methoxy-N,N,6-trimethyl- (CA INDEX NAME)



RN 889097-39-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-6-ethyl-3-methoxy-N,N-dimethyl- (CA INDEX NAME)

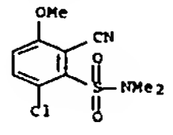


RN 889097-40-9 CAPLUS
CN Benzoic acid, 3-cyano-2-[(dimethylamino)sulfonyl]-4-methoxy-, methyl ester (CA INDEX NAME)

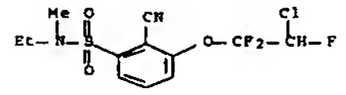


RN 889097-41-0 CAPLUS
CN Benzenesulfonamide, 6-chloro-2-cyano-3-methoxy-N,N-dimethyl- (CA INDEX NAME)

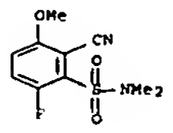




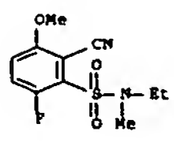
RN 889097-42-1 CAPLUS
CN Benzenesulfonamide, 3-(2-chloro-1,1,2-trifluoroethoxy)-2-cyano-N-ethyl-N-methyl- (CA INDEX NAME)



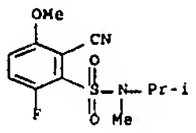
RN 889097-43-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-6-fluoro-3-methoxy-N,N-dimethyl- (CA INDEX NAME)



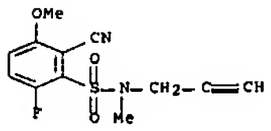
RN 889097-44-3 CAPLUS
CN Benzenesulfonamide, 2-cyano-N-ethyl-6-fluoro-3-methoxy-N-methyl- (CA INDEX NAME)



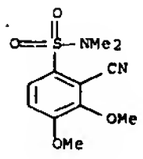
RN 889097-45-4 CAPLUS
CN Benzenesulfonamide, 2-cyano-6-fluoro-3-methoxy-N-methyl-N-(1-methylethyl)- (CA INDEX NAME)



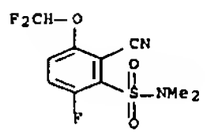
RN 889097-46-5 CAPLUS
CN Benzenesulfonamide, 2-cyano-6-fluoro-3-methoxy-N-methyl-N-2-propynyl- (9CI) (CA INDEX NAME)



RN 889097-47-6 CAPLUS
CN Benzenesulfonamide, 2-cyano-3,4-dimethoxy-N,N-dimethyl- (CA INDEX NAME)

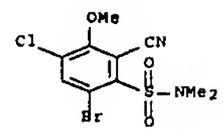


RN 889097-48-7 CAPLUS
CN Benzenesulfonamide, 2-cyano-3-(difluoromethoxy)-6-fluoro-N,N-dimethyl- (CA INDEX NAME)

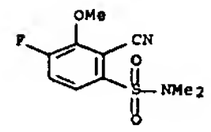


RN 889097-49-8 CAPLUS
CN Benzenesulfonamide, 6-bromo-4-chloro-2-cyano-3-methoxy-N,N-dimethyl- (CA INDEX NAME)





RN 889097-50-1 CAPLUS
CN Benzenesulfonamide, 2-cyano-4-fluoro-3-methoxy-N,N-dimethyl- (CA INDEX NAME)

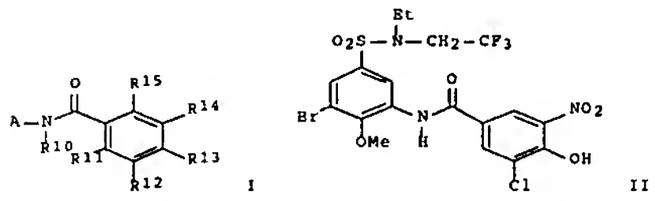


L22 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:636036 CAPLUS Full-text
DN 135:210839
TI Preparation of benzamide derivatives as corticotropin releasing factor receptor antagonists
IN Sato, Motohide; Harada, Kazuhito; Miyazaki, Akira
PA Japan Tobacco, Inc., Japan
SO PCT Int. Appl., 221 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

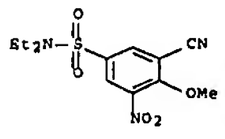
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | WO 2001062718 | A1 | 20010830 | WO 2001-JP1429 | 20010226 |
| | W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | JP 2002201172 | A | 20020716 | JP 2001-45859 | 20010221 |
| PRAI | JP 2000-50336 | A | 20000225 | | |
| | JP 2000-337197 | A | 20001106 | | |
| | JP 2000-337579 | A | 20001106 | | |

OS MARPAT 135:210839
GI

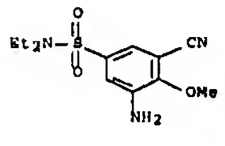




AB The title compds. I [A is optionally substituted 3-sulfamoylphenyl, optionally substituted 2-thienyl, etc.; R10 is hydrogen or optionally substituted lower alkyl; R11 is hydrogen, halogeno, or hydroxy; R12 is hydrogen, halogeno, or nitro; R13 is hydroxy, optionally substituted lower alkoxy, optionally substituted lower alkylamino, etc.; R14 is hydrogen, halogeno, nitro, etc.; and R15 is hydrogen, halogeno, or hydroxy] are prepared In an in vitro binding assay for corticotropin releasing factor receptor antagonism, the potassium salt of title compound II showed IC50 of 36 nM.
IT 357332-59-3P 357332-93-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of benzamide derivs. as corticotropin releasing factor receptor antagonists)
RN 357332-59-3 CAPLUS
CN Benzenesulfonamide, 3-cyano-N,N-diethyl-4-methoxy-5-nitro- (CA INDEX NAME)



RN 357332-93-5 CAPLUS
CN Benzenesulfonamide, 3-amino-5-cyano-N,N-diethyl-4-methoxy- (CA INDEX NAME)



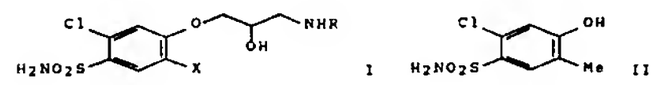
RE.CNT 97 THERE ARE 97 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT



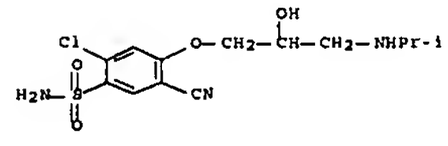
L22 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1988:473125 CAPLUS Full-text
DN 109:73125
TI Preparation of phenoxyaminopropanols as β-blockers and diuretics
IN Shioiri, Takayuki; Aoyama, Toyohiko; Takamori, Masayuki
PA Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | JP 62215559 | A | 19870922 | JP 1986-58982 | 19860317 |
| PRAI | JP 1986-58982 | | 19860317 | | |

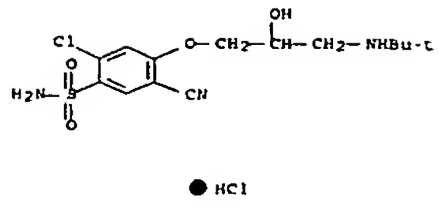
OS CASREACT 109:73125
GI



AB The title compds. I (R = alkyl; X = alkyl, sulfamoyl, halo, alkoxycarbonyl, carbamoyl, cyano, alkoxy, alkoxycarbonylamino, etc.) were prepared as β-blockers and diuretics (no data). Etherification of II with CH2:CHCH2Br followed by oxidation with m-ClC6H4CO2OH and reaction with Me2CHNH2 gave I.HCl (R = Me2CH, X = Me).
IT 115582-97-3P 115582-98-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as β-blocker and diuretic)
RN 115582-97-3 CAPLUS
CN Benzenesulfonamide, 2-chloro-5-cyano-4-[2-hydroxy-3-[(1-methylethyl)amino]propoxy]-, monohydrochloride (9CI) (CA INDEX NAME)

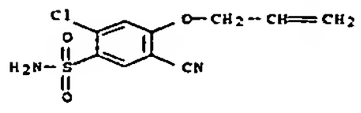


RN 115582-98-4 CAPLUS
CN Benzenesulfonamide, 2-chloro-5-cyano-4-[3-[(1,1-dimethylethyl)amino]-2-hydroxypropoxy]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IT : : . . 4.
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, in preparation of β-blocker and diuretic)
RN 115592-80-4 CAPLUS
CN Benzenesulfonamide, 2-chloro-5-cyano-4-(2-propenyloxy)- (9CI) (CA INDEX NAME)



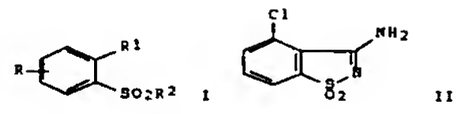
L22 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1982:6713 CAPLUS Full-text
DN 96:6713
OREF 96:1222h,1223a
TI Sulfonyl compounds and aphicidal compositions based on these compounds
IN van Hes, Roelof; Grosscurt, Arnoldus Cornelis; Balk, Wouter
PA Duphar International Research B. V., Neth.
SO Eur. Pat. Appl., 48 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | EP 33984 | A1 | 19810819 | EP 1981-200042 | 19810115 |
| | EP 33984 | B1 | 19840606 | | |
| | R: AT, BE, CH, DE, FR, GB, IT, NL, SE | | | | |
| | AT 7787 | T | 19840615 | AT 1981-200042 | 19810115 |
| | BR 8100281 | A | 19810804 | BR 1981-281 | 19810119 |
| | US 4379157 | A | 19830405 | US 1981-226533 | 19810119 |
| | DK 8100241 | A | 19810724 | DK 1981-241 | 19810120 |
| | AU 8166360 | A | 19810730 | AU 1981-66360 | 19810120 |
| | JP 56120664 | A | 19810922 | JP 1981-6043 | 19810120 |
| | ZA 8100382 | A | 19820224 | ZA 1981-382 | 19810120 |
| | DD 157071 | A5 | 19821013 | DD 1981-227106 | 19810120 |
| | RO 81451 | A1 | 19840402 | RO 1981-103171 | 19810120 |
| | IL 61942 | A | 19851129 | IL 1981-61942 | 19810120 |
| | ES 498695 | A1 | 19811101 | ES 1981-498695 | 19810121 |

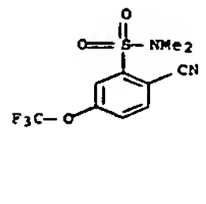


| | | | | | |
|---|---|---|---|---|---|
| | CS 219348 | B2 | 19830325 | CS 1981-439 | 19810121 |
| | CA 1167043 | A1 | 19840508 | CA 1981-368982 | 19810121 |
| | HU 28630 | A2 | 19831228 | HU 1981-134 | 19810122 |
| | HU 186379 | B | 19850729 | | |
| | ES 500638 | A1 | 19820101 | ES 1981-500638 | 19810324 |
| | SU 1093247 | A3 | 19840515 | SU 1981-3328851 | 19810619 |
| PRAI | NL 1980-414 | A | 19800123 | | |
| | EP 1981-200042 | A | 19810115 | | |

OS MARPAT 96:6713
GI



AB Sulfones I (R = halogen, OPh, alkyl, alkoxy; R1 = cyano, R2 = amino; R1R2 = S,S-dialkylsulfoximido, 1-amino-2-azavinylene, 1-amino-2-azaethylene) were prepared Thus 11.8 g 3,2-Cl(NC)C6H3SO2Cl was treated with 12.5 mL 25% aqueous NH3 to give 8.9 g II which was aphicidal at 10 mg/L.
IT 80043-69-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and aphicidal activity of)
RN 80043-69-2 CAPLUS
CN Benzenesulfonamide, 2-cyano-N,N-dimethyl-5-(trifluoromethoxy)- (CA INDEX NAME)



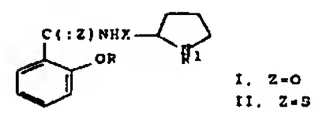
L22 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1977:5307 CAPLUS Full-text
DN 86:5307
OREF 86:915a,918a
TI N-(1-alkyl-2-pyrrolidinylalkyl)-2-alkoxy-5-sulfamoylbenzamides
PA Societe d'Etudes Scientifique et Industrielles de l'Ile-de-France, Fr.
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | JP 51008265 | A | 19760123 | JP 1974-78617 | 19740709 |



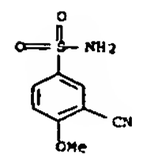
| | | | |
|---|---|---|---|
| | JP 56042597 | B | 19811006 |
| PRAI | JP 1974-78617 | A | 19740709 |

GI



I, Z=O
II, Z=S

AB The N-(1-alkyl-2-pyrrolidinylalkyl)benzamides I (R, R1 = alkyl, X = alkylene) or their acid addition salts were prepared by oxidation of their S analogs II or their acid addition salts. Thus, 1 g II (R = Me, R1 = Et, X = CH2), obtained from O-Me 2-methoxy-5-sulfamoylthiobenzoate and 2-(aminomethyl)-1-ethylpyrrolidine, was refluxed with 2 g Pb(OAc)4 in H2O for 6 hr to give 0.75 g I (R = Me, R1 = Et, X = CH2).
IT 22117-84-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(alcoholysis of)
RN 22117-84-6 CAPLUS
CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)



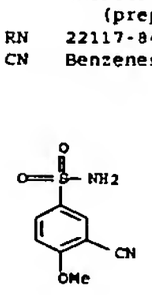
L22 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1975:4117 CAPLUS Full-text
DN 82:4117
OREF 82:707a,710a
TI N-[(1-Ethyl-2-pyrrolidinyl)methyl]-2-methoxy-5-sulfamoylbenzamide
IN Bulteau, Gerard; Achet, Jacques; Moniot, Jean C.
PA Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France
SO Ger. Offen., 9 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | DE 2409891 | A1 | 19740912 | DE 1974-2409891 | 19740301 |
| | FR 2220522 | A1 | 19741004 | FR 1973-8033 | 19730306 |
| | FR 2220522 | B1 | 19770204 | | |
| | CA 1010046 | A1 | 19770510 | CA 1974-193458 | 19740225 |
| | AT 7401590 | A | 19790415 | AT 1974-1590 | 19740227 |



| | | | | | |
|---|---|---|---|---|---|
| | AT 358567 | B | 19800925 | | |
| | JP 49124056 | A | 19741127 | JP 1974-24110 | 19740301 |
| | JP 56041631 | B | 19810929 | | |
| | GB 1420890 | A | 19760114 | GB 1974-9425 | 19740301 |
| | FI 57931 | B | 19800731 | FI 1974-629 | 19740304 |
| | FI 57931 | C | 19801110 | | |
| PRAI | FR 1973-8033 | A | 19730306 | | |

OS CASREACT 82:4117
GI For diagram(s), see printed CA Issue.
AB The benzamide I was prepared Thus, 3,4-R(MeO)C6H3SO2NH2 (II, R = CO2H) was treated with PCl5-NH4OH to give 94% II (R = CN) (III). Reaction of III with MeOH gave 54% II [R = C(:NH)OMe] (IV). IV was treated with H2S to give 73% II (R = CSOMe) (V). Grignard reaction of V with 2-[(dibromoamino)methyl]-1-ethylpyrrolidine gave 34% thiobenzamide VI. VI was treated with (AcO)4Pb to give 75% I.
IT 22117-84-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and methoxylation of)
RN 22117-84-6 CAPLUS
CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)



L22 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1969:461019 CAPLUS Full-text
DN 71:61019
OREF 71:11211a,11214a
TI 2-Alkoxy-5-sulfamidobenzoic acids
PA Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France
SO Fr., 4 pp.
CODEN: FRXXAK
DT Patent
LA French
FAN.CNT 1

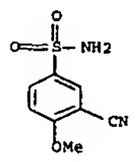
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|---|
| PI | FR 1524388 | | 19680510 | FR 1967-101151 | 19670331 |

AB The title compds. were prepared Thus, addition at -10° of 436 g. ClSO3H to a solution of 200 g. anisole in 700 ml. CHCl3 gave 210 g. 4-methoxybenzenesulfonyl chloride (I), m. 38°. I (205 g.) added to 718 ml. HNO3 (d. 1.49) at -6° gave 211 g. 3-nitro-4-methoxy- benzenesulfonyl chloride (II). Reaction of 200 g. II with 600 g. ammonium carbonate at 100° gave 172 g. 2-nitro-4-sulfamoylanisole (III), m. 142°. III (30 g.) in 50 ml. absolute EtOH, by hydrogenation in an autoclave at 50°/30 atmospheric in the presence of 20 g. Raney Ni, gave 25 g. 2-methoxy-5-sulfamoylaniline (IV), m. 143°. A mixture of 81 g. IV, 424 ml. water, and 77 ml. HCl (d. 1.19) treated at 0° with 32.3 g. NaNO2 in 108 ml. water and then added at 90° to a solution of 107.2 g.

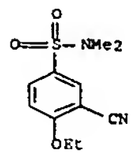
CuSO4.5H2O in 645 ml. water and then reacted with 89.2 g. NaCN gave 41 g. 2-methoxy-5-sulfamoylbenzonitrile (V), m. 180-1°. A mixture of 15 g. V, 74 ml. water, 70 ml. H2SO4 (d. 1.84) heated to 130-40° for 30 min. gave 11 g. 2-methoxy-5-sulfamoylbenzoic acid, m. 220°. Similarly, from 2-ethoxybenzene, 2-ethoxy-5-(dimethylsulfamoyl)-benzoic acid, m. 123°, was prepared

IT 22117-84-6P 22121-74-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 22117-84-6 CAPLUS
CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)



RN 22121-74-0 CAPLUS
CN Benzenesulfonamide, 3-cyano-4-ethoxy-N,N-dimethyl- (CA INDEX NAME)



L22 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1969:430239 CAPLUS Full-text
DN 71:30239
OREF 71:5569a,5572a
TI 2-Alkoxy-5-sulfonamidobenzoic acids
PA Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France
SO Fr., 4 pp.
CODEN: FRXXAK
DT Patent
LA French
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| FR 1532332 | | 19680712 | FR 1967-100123 | 19670323 |

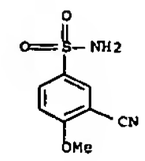
GI For diagram(s), see printed CA Issue.
AB In the title compds. (I), R = C1-5 alkyl or alkenyl and R1,R2 = C1-3 alkyl groups, or NR1R2 is part of a ring containing O or N. I were prepared by a series of reactions starting with ordinary phenols. E.g., 470 g. PhOH and 650 g. concentrated H2SO4 were stirred at 125-30° 6 hrs., then after dilution with H2O poured into a solution of 535 g. NaNO3 in 1 l. H2O and worked up to give



605 g. II (R = H, R1 = ONa)III. III (241 g.) was methylated with Me2SO4 in basic solution to give 80 g. II (R = Me, R1 = ONa) (IV). IV (51 g.) was treated with 80 ml. POCl3 and 50 g. PCl5 to give II (R = Me,R1 = Cl), m. 66°. Treatment with (NH4)2CO3 gave 172 g. II (R = Me, R1 = NH2), m. 142°. Reduction with Fe and HCl gave 119 g. V, m. 146°. By Sandmeyer reaction, 81 g. V was converted to 41 g. VI, m. 190-1°. Hydrolysis of 15 g. VI with H2SO4 gave 11 g. I (R = Me, R1 = R2 = H),m. 220°. I are intermediates in the synthesis of alkoxysulfonamidobenza-mides having useful pharmacol. properties.

IT 22117-84-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 22117-84-6 CAPLUS
CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)



L22 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1969:67925 CAPLUS Full-text
DN 70:67925
OREF 70:12677a,12680a
TI 2-Alkoxy-5-sulfamoylbenzoic acids
IN Bulteau, Gerard
PA Societe d'Etudes Scientifiques et Industrielles de l'Ile-de-France
SO S. African, 18 pp.
CODEN: SFXXAB
DT Patent
LA English
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|---|---|---|
| PI ZA 6801840 | | 19680821 | ZA | |
| FR 1524388 | | | FR | |
| FR 1525352 | | | FR | |
| FR 1532332 | | | FR | |
| GB 1204406 | | | GB | |
| PRAI FR | | 19670323 | | |
| FR | | 19670406 | | |

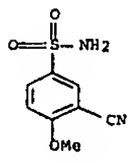
AB A mixture of 600 g. crushed (NH4)2CO3 and 200 g. 2-methoxy-5-chlorosulfonylnitrobenzene was stirred in a boiling water bath 2 hrs., poured onto 2 kg. water and ice, and stirred 15 min., the solid filtered off, repeatedly (until foams no longer form) triturated with 200 ml. 10% HCl and with water, and dried at 60° to give 172 g. 2,5-(MeO)(H2NSO2)C6H3NO2 (I). Similarly prepared was 97% 2,5-(EtO)(Me2NSO2)C6H3NO2, m. 108-9°. A mixture of 206 g. powdered Fe and 800 ml. H2O was added to a stirred mixture of 158 g. I and 800 ml. absolute EtOH at 60°, the mixture stirred at 80° to suspend the Fe, a solution of 20 ml. HCl (d. 1.19) in 80 ml. H2O added <90°, the mixture kept at 80-5° 3 hrs., the pH adjusted to 7.5 by addition of a solution of 20 g. potash in 50 ml. H2O and 50 ml. alc., the mixture filtered, the brown solid



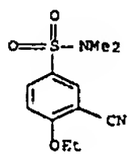
dried and triturated with alc., the 2 filtrates added to the main solution, and the solution cooled 1 hr. and evaporated in vacuo to give 86% 2,5-(MeO)(H2NSO2)C6H3NH2 (II), m. 142°. Similarly prepared was 70% 2,5-(EtO)(Me2NSO2)C6H3NH2, m. 125°. A solution of 32.3 g. NaNO2 in 108 g. H2O was added to a solution of 81 g. II, 77 ml. HCl (d. 1.19), and 424 ml. H2O and the mixture stirred 30 min. at 0-5° and added to a diazo solution (prepared from 89.2 g. NaCN, 107.2 g. CuSO4, and 645 ml. H2O) at 85-90° in 15 min., the mixture stirred 20 min. at 85-90°, cooled, kept at 0-5° 2 hrs., and filtered, the solid washed in water, dried at 60°, and mixed with 1650 ml. absolute EtOH, the mixture filtered, and the filtrate boiled 0.5 hr. with charcoal, evaporated to 600 ml., and cooled 1 hr. to give 48.5% 2,5-(MeO)(H2NSO2)C6H3CN (III), m. 180-1°. Similarly prepared was 46.5% 2,5-(EtO)(Me2NSO2)C6H3CN, m. 103-4°. A mixture of 15 g. III, 70 ml. H2SO4 (d. 1.84), and 74 ml. H2O was kept at 130-40° 0.5 hrs., cooled at 0-5° 2 hrs., and filtered, the solid triturated 4 times with H2O, dried at 60°, and dissolved in 250 ml. saturated NaHCO3 solution, the solution clarified with 2.5 g. charcoal 0.5 hr. and acidified to pH 1 with 25 ml. HCl (d. 1.19), and the precipitate filtered off, washed with H2O until the washings were Cl- free, and dried at 60° to give 67% 2,5-(MeO)-(H2NSO2)C6H3CO2H, m. 220°. Similarly prepared was 2,5-(EtO)(Me2NSO2)C6H3CO2H, m. 123°.

IT 22117-84-6P 22121-74-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 22117-84-6 CAPLUS
CN Benzenesulfonamide, 3-cyano-4-methoxy- (CA INDEX NAME)



RN 22121-74-0 CAPLUS
CN Benzenesulfonamide, 3-cyano-4-ethoxy-N,N-dimethyl- (CA INDEX NAME)





| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| CA SUBSCRIBER PRICE | -12.00 | -21.60 |

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:05:20 ON 28 JAN 2008

=> log hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---|---|---|
| FULL ESTIMATED COST | 82.23 | 463.06 |